

# Welcome to Hot Chips 19!

## Message from the Chair



The Hot Chips conference provides an informal and one-of-a-kind opportunity to listen to and interact with the best and the brightest from industry and academia. The conference is produced by a large number of hard working volunteers. This year they've put together yet another intense and exciting mix of tutorials, technical presentations, panel discussion, and state-of-the-art technology reviews in the beautiful surroundings of Stanford University.

The tutorials on *Approaches to System Design for the Working Engineer* and *Enterprise Power and Cooling* provided a wealth of information on major design issues. Monday's keynote speaker is Vernor Vinge, noted computer scientist and science fiction author. The panel discussion Monday evening "What's Next Beyond CMOS?" features experts from Berkeley, Hewlett-Packard, IBM, Intel and Stanford. AMD's CTO, Phil Hester, will present Tuesday's keynote "Multicore and Beyond - Evolving the X86 Architecture". Tuesday afternoon, Reed Hundt, Vice Chair of Frontline Wireless and former FCC Chair will discuss Wireless Broadband and Entrepreneurship in America. In between are 26 presentations covering significant processor developments, new memory technologies, and graphics, video, security, wireless, and network processing.

The program committee led by John Mashey and Rajeevan Amirtharajah with Forest Baskett, Dileep Bhandarkar, Doug Burger, Norm Jouppi, Christos Kozyrakis, John Montrym, Chuck Moore, Mitsuo Saito, Alan Jay Smith, Marc Tremblay, Jan-Willem van de Waerdt, and Ralph Wittig, has done a fantastic job in soliciting and driving the selection of papers and putting together this exciting program.

The organizing committee continues to work to improve conference operations. This year the conference proceedings are being distributed to all attendees registered for the main conference on a 1 GB flash drive. Tutorial presentations are still being provided to attendees registered for the tutorials in the traditional printed format. However flash drives containing both tutorial and main conference proceedings with last minute updates from the presenters are available for purchase at [www.hotchips.org](http://www.hotchips.org). These will be shipped approximately four weeks after the conference.

The organizing committee has been evaluating on-line paper submission and review systems. We expect to have such a system in place next year.

Last year Hot Chips introduced video recordings of the tutorials and main conference on DVD. This was very well received and is available again this year. DVD video sets can be purchased online at [www.hotchips.org](http://www.hotchips.org). A substantial discount is offered through the end of the conference on Tuesday, August 21. DVD video sets will be shipped approximately six weeks after the conference.

There are many people involved in making Hot Chips possible. In addition to the program committee listed above I want to give special thanks to the members of the organizing committee: Don Draper – providing a tremendous amount of assistance in almost every area as vice chair and with Fely Krewell – ensuring that our advertising is effective, Yusuf Abdulghani – driving new technology infrastructure for the conference and providing invaluable advice as last year's chair, Allen Baum and Lance Hammond – arranging the great food and facilities, Alex Cordova – keeping the web site up to date, looking good, and operating correctly, Gordon Garb and Randall Neff – handling the many tasks to produce the conference publications, Lily Jow – keeping our finances in good order, Kevin Krewell – organizing publicity and handling press relations, Charlie Neuhauser – organizing and leading our onsite volunteers, Sujata Ramasubramanian and Ravi Rajamani – keeping registration running smoothly, Gail Sachs – arranging attendee materials and gifts, and Amr Zaky – enlisting a record number of corporate sponsors. I also want to give special thanks to the steering committee: Don Alpert, Allen Baum, Pradeep Dubey, Lily Jow, John Mashey, Howard Sachs, and Alan Jay Smith; to Hot Chips founder Bob Stewart; and a big thank you to all of our student and other onsite volunteers.

Special thanks to our corporate sponsors: AMD, Cadence, Circuit Cellar, Intel, Micro Magic, NEC, Nvidia, Photon Wall, Tiler, and Warthman Associates. Their support is deeply appreciated.

Finally, special thanks to each of you, our attendees who continue to motivate and inspire us and provide the reason to organize the conference each year. In order to continue to bring you the best program and experiences we solicit your feedback. Please turn in your survey questionnaires and don't hesitate to provide feedback directly to any of the organizing and steering committee members. Also let any of us know if you are interested in helping with next year's conference. And start planning now for the great presentations you'll submit for next year, our Twentieth Hot Chips conference!

I wish you a productive and enjoyable conference.

John Sell  
General Chair, Hot Chips 19  
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